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TAGGING EXPERIMENTS ON AUSTRALIAN SALMON (*ARRIPIS TRUTTA*)

: Recapture Data for New South Wales Releases, 1939 to 1965, and Victorian Releases, 1939 to 1964. / Stanley, C.A. 1988.

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Tagging experiments on Australian Salmon (Arripis trutta): Recapture data for New South Wales releases, 1939 to 1965, and Victorian releases, 1939 to 1964

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Abstract

Release and recapture information are given for 274 recaptures from 1196 tagged Australian salmon (Arripis trutta) liberated in New South Wales between 1939 and 1965, and 1188 recaptures from 7186 liberated in Victorian waters between 1939 and 1964. When available, recapture information includes tag type, locality, date, fish length (including similar release data), and whether the return was made by an amateur or professional fisherman.



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Introduction

The biology of the Australian salmon in New South Wales and Victorian waters was studied by the CSIRO Division of Fisheries Research between 1939 and 1965. As part of this study, numbers of fish were tagged, especially between 1963 and 1965.

Although use has been made of the resulting information, the data set still provides a valuable record for future analyses. Of the information published, Thomson (1963) and Stanley (1983) have reported on the suitability of the various tag types used, and Stanley (1978) has used the data in discussing the population dynamics of the eastern subspecies. Anon (1968) and Malcolm (1960, 1966a, 1966b) comment briefly on the movements of tagged fish. To make the entire set of data available for future analyses and to provide an historic record, all available information is listed in a common format.

Data Format

Release and recapture localities are plotted in figs 1 to 3 (New South Wales, Victoria and Other States), and experiment numbers relating to individual release locations are listed in Table 1. Recaptures from New South Wales experiments are listed first, followed by Victorian experiments (experiment VIC 020 does not exist).

Up to experiment VIC 015 and NSW 003 a variety of tag types, noted under each experiment, were used. Several Petersen disks from experiments VIC 011 to 015 were returned with only the blank, and not the numbered, disk. These returns are listed separately before experiment VIC 011.

After experiment VIC 015 internal tags only were used, and from experiment VIC 022 external plastic streamers were attached to these (and also probably for experiments VIC 019 to 021). Internal tags with external plastic streamers were also used after experiment NSW 003.

Return rates of the various tag types used are listed in Table 2.

Internal tags were much superior to other types. The return rate of 26.9% for New South Wales Petersen tags is much higher than that recorded elsewhere (Stanley 1983, Thomson 1963). However, of the 121 recaptures, 71 were from two batches returned from the release locality on two dates, 14 September 1948 and 5 October 1948, 115 to 137 days after release. These recaptures were not included in the analyses carried out by Stanley 1983 or Thomson 1963, and were discovered only during a search of tag return correspondence in the course of the preparation of this report. There may have been a valid reason for not previously including these recaptures and they represent a substantial percentage of those returned. However, in respect to return rates of the various tag types they are best regarded as the chance recapture of a large number of tags near the release point before dispersal had occurred. Eliminating them, results in a return rate of 11.1%, which is close to the percentage return rates given by Thomson (1963) and to the adjusted return rates quoted by Stanley (1983).

In Victoria, the east and west subspecies (Arripis trutta marginata and A. t. esper respectively) often coexist in the same school. The only satisfactory method of determining the subspecies identity is by counting the number of gill rakers (Malcolm 1959). For most experiments from VIC 019, representative samples of fish remaining after tagging operations were examined and gill raker counts made. These counts were then used to determine the probable subspecies composition of released tagged fish.

Fish length measurements (cm) are from the snout to the caudal fork. Lengths at release are accurate, the measurements having been made by scientific staff. The accuracy of recapture lengths is variable, some having been made by scientific staff but others by amateurs or professional fishermen.

Lengths-at-release of individual fish are available only for experiments VIC 001 to 015 and NSW 001 to 003. Thereafter length information at release was derived from separate subsamples of fish remaining after tagging operations. In many cases, by inspection of length-frequency graphs, it has been possible to determine the percentage of fish within discrete modes (square parentheses). Otherwise total length ranges are given (parentheses).

Occasionally no records of length composition at release were made.

Column symbols

NSW,SA,Tas,Vic,WA	in 'locality' column: the recapture was made in New South Wales, South Australia, Tasmania, Victoria or Western Australia.
*	in 'recapture date' column: date is approximate
A or P	in 'returned by' column: tag was returned by an amateur or professional fisherman respectively.

Table 1 Index of release localities in (a) New South Wales and (b) Victoria.

Locality	Experiment numbers
(a) Black Head	NSW 009
Haycock Beach	NSW 010
Mowwarry	NSW 014
Narooma	NSW 001
Pambula	NSW 002, 003
Pinnacles Beach	NSW 011
Twofold Bay	NSW 004, 005, 006, 008, 013, 015
Wonboyn	NSW 007, 012
(b) Barwon River	VIC 045
Bulmers Jetty	VIC 033, 037, 038
Cape Everard	VIC 040
Cunningham Arm	VIC 031, 032, 036
Fitzroy River	VIC 043
Flannigan Island	VIC 022, 023, 024, 025
Frazer Island	VIC 026, 027, 030, 034
Lakes Entrance	VIC 001-003, 011-019, 021, 041, 046, 047, 051-053
Marlo	VIC 044
North Arm	VIC 035
Oberon Bay	VIC 048, 050
Portland	VIC 042
Rigby Island	VIC 028, 029
Sydenham Inlet	VIC 039
Tidal River	VIC 049
Wingan Inlet	VIC 004-010

Table 2 Recovery rates of various tag types

Tag type	New South Wales			Victoria		
	Number released	Number recaptured	Percentage recaptured	Number released	Number recaptured	Percentage recaptured
Internal	696	153	22.0	4026	1048	26.0
Petersen	450	121	26.9*	489	28	5.7
Strap	50	-	-	2414	95	3.9
Tape	-	-	-	257	17	6.6
Total	1196	274	22.9	7186	1188	16.5

* or 11.1%, excluding two return batches of 71 tags (see text)

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Fig. 1 Release and recapture localities in New South Wales

Locality	Code Number	Locality	Code Number
Bermagui	9	Moruya	7
Binge Binge Beach	8	Morowary	12
Black Head	14		
Boydton	12	Narooma	8
Broulee	7	Nelson Bay	2
		Newtons Beach	12
Calle Calle Bay	13	Nowra	4
Crockhaven Heads	4		
Cuttagee Beach	9	Pambula	11
		Pinnacles Beach	12
Disaster Bay	13	Port Stephens	2
Eden	12	Racecourse Beach	9
Fisheries Creek	12	Saltwater Creek	12
Forster	1	Stony River	13
Haycock Beach	11	Tabourie	6
Huskinson	4	Tathra	11
		Tollgate Island	7
Iron Prince Reef	15	Twofold Bay	12
Jane Speers Beach	12	Ulladulla	6
Jervis Bay	4		
		Wapengo Lake	10
Kiah Beach	12	Wollongong	3
		Womboyn	13
Logans Beach	13	Wreck Bay	5
Malua Beach	7		
Merimbula	11		
Mewtrees Beach	12		
Mollymook Beach	6		

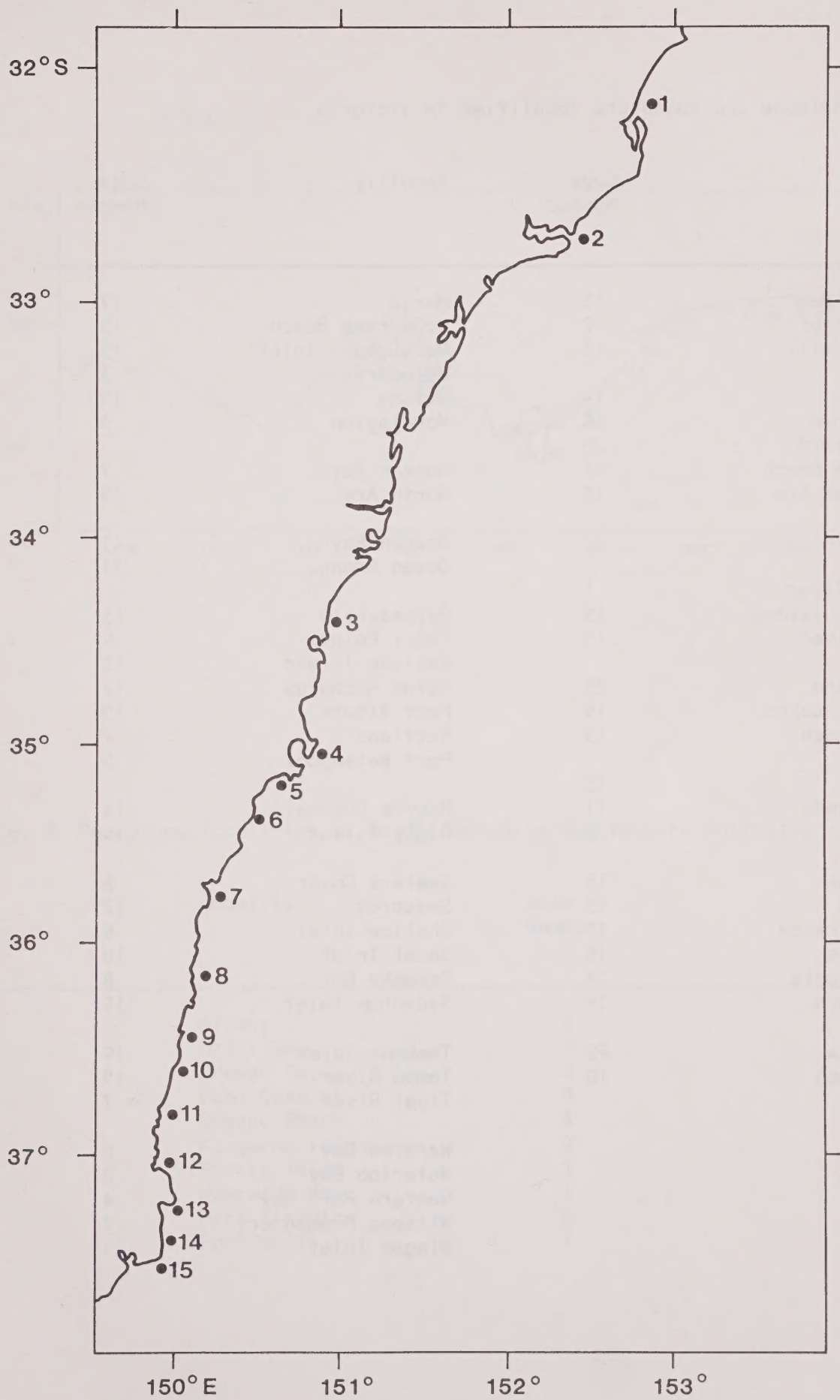


Fig. 2 Release and recapture localities in Victoria

Locality	Code Number	Locality	Code Number
Bancroft Bay	15	Marlo	17
Barwon River	2	McGaurans Beach	15
Bulmers Jetty	15	McLaughans Inlet	15
		Melbourne	3
Cann River	19	Metung	15
Cape Conran	18	Mornington	3
Cape Everard	20		
Corringale Beach	17	Norman Bay	7
Cunningham Arm	15	North Arm	15
Derby River	7	Oberon Bay	7
		Ocean Grange	14
Fitzroy River	1		
Flannigan Island	15	Paynesville	15
Fraser River	15	Pearl Point	19
		Pelican Island	15
Gabo Island	23	Point Richards	17
Gippsland Lakes	15	Port Albert	10
Golden Beach	13	Portland	1
		Port Welshpool	9
Kalimna	15		
Kent Islands	11	Reeves Channel	14
Kilcunda	5	Rigby Island	15
Lake Bunga	15	Sealers Cover	8
Lake King	15	Seaspray	12
Lakes Entrance	15	Shallow Inlet	6
Lake Tyers	16	Shoal Inlet	10
Lake Victoria	14	Squeaky Bay	8
Letts Beach	15	Sydenham Inlet	19
Mallacoota	22	Tamboon Inlet	19
Manns Beach	10	Tambo River	15
		Tidal River	7
		Waratah Bay	6
		Waterloo Bay	8
		Western Port Bay	4
		Wilsons Promontory	7
		Wingan Inlet	21

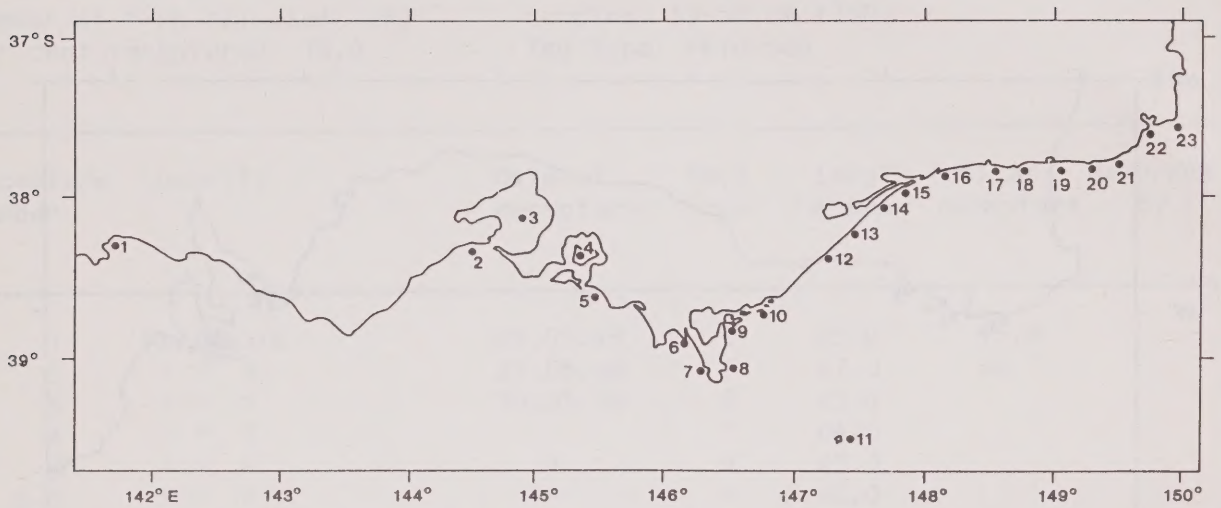
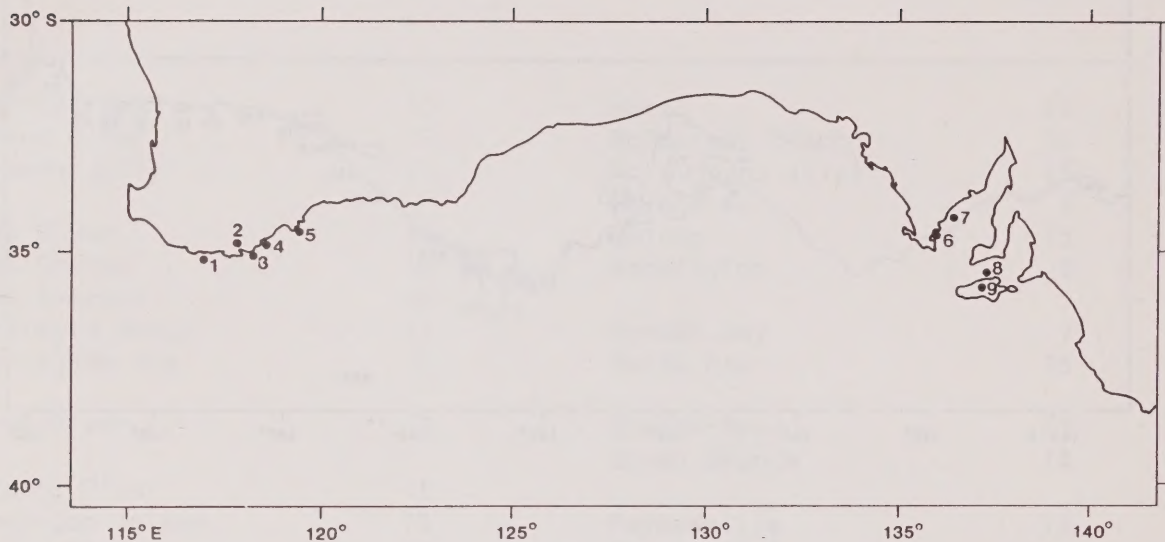


Fig. 3 Recapture localities in South Australia and Western Australia

Locality	Code Number
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Albany	2
Betty Bay	3
Bremer Bay	5
Cape Cassini	8
Cheyne Beach	4
Kangaroo Island	9
Parry's Inlet	1
Peaceful Bay	1
Port Lincoln	6
Port Neill	7



Experiment No. **NSW 001**

Place of release Narooma
 Number of fish released 50
 Per cent recaptured: 0

Date of release 16 October 1939
 Lengths 50-54 cm (13). 55-62 cm (31)
 Tag type: Strap

Experiment No. NSW 002

Place of release Pambula
 Number of fish released 250
 Per cent recaptured: 19.6

Date of release 21 May 1948
 Lengths 39-50 cm (250)
 Tag type: Peterson

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1	Merimbula	26.05.48	5	45.0	45.6
2	" " "	27.05.48	6	47.0	46.7
3	" " "	29.05.48	8	43.0	
4	" " "	"	"	44.0	
5	" " "	"	"	45.0	
6-7	" " "	"	"	46.0	
8	Pambula	30.05.48	9	43.0	
9	" "	"	"	45.0	
10	Merimbula	12.06.48	22	45.0	45.2
11	" " "	"	"	47.0	46.7
12	Pambula	01.08.48	72	48.0	
13	" "	16.08.48	87	46.0	
14	" "	"	"	47.0	
15	" "	"	"	48.0	
16	" "	31.08.48	102	42.0	47.0
17	" "	"	"	45.0	44.0
18	" "	08.09.48	110	43.0	43.0
19	Merimbula	11.09.48	113	47.0	54.6
20-21	Pambula	14.09.48	116	43.0	43.0
22	" "	"	"	43.0	45.5
23	" "	"	"	43.0	47.5
24-31	" "	"	"	44.0	44.0
32-34	" "	"	"	45.0	45.0
35-37	" "	"	"	46.0	46.0
38	" "	"	"	46.0	47.5
39	" "	"	"	46.0	48.0
40	" "	"	"	47.0	
41	" "	"	"	47.0	47.0
42	" "	"	"	47.0	50.0
43	" "	"	"	49.0	
44	" "	05.10.48	137	45.0	44.0
45	" "	"	"	46.0	46.0
46	Wapengo Lake	30.10.48	162	46.0	46.0
47	Vic, Lakes Entrance	29.11.48	192	45.0	
48	Bermagui	04.01.49	228	45.0	53.0
49	New South Wales *	27.01.49	251	43.0	

Experiment No. NSW 003

Place of release: Pambula
 Number of fish released 200
 Per cent recaptured: 36.0

Date of release: 22 May 1948
 Lengths 39-49 cm (200)
 Tag type: Peterson

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1	Merimbula	26.05.48	4	43.0	42.5
2	" " "	"	"	46.0	46.7
3	" " "	29.05.48	7	42.0	
4	" " "	"	"	43.0	
5	" " "	"	"	44.0	
6-10	" " "	"	"	45.0	
11	" " "	12.06.48	21	42.0	41.7
12	" " "	"	"	46.0	44.6
13	" " "	"	"	46.0	45.6
14	" " "	"	"	48.0	47.4
15	New South Wales	05.07.48	44	46.0	
16	Pambula	10.08.48	80	43.0	43.2
17	" "	16.08.48	86	46.0	
18	" "	"	"	47.0	
19	" "	31.08.48	101	45.0	46.0
20-21	" "	"	"	47.0	47.0
22	Moruya	* 06.09.48	107	46.0	44.5
23-24	Pambula	14.09.48	115	41.0	41.0
25-27	" "	"	"	43.0	43.0
28-35	" "	"	"	44.0	44.0
36	" "	"	"	44.0	45.0
37	" "	"	"	44.0	47.5
38-46	" "	"	"	45.0	45.0
47-50	" "	"	"	46.0	46.0
51	" "	"	"	47.0	
52-58	" "	"	"	47.0	47.0
59	" "	"	"	48.0	48.0
60	" "	"	"	49.0	49.0
61	New South Wales	* 20.09.48	121	46.0	45.5
62	Wapengo Lake	25.09.48	126	46.0	
63	Pambula	05.10.48	136	43.0	44.0
64	" "	"	"	44.0	44.0
65	" "	"	"	44.0	45.0
66	" "	"	"	45.0	45.0
67	" "	"	"	45.0	46.0
68	" "	"	"	46.0	46.0
69	" "	"	"	47.0	48.0
70	Merimbula	08.12.48	200	46.0	46.0
71	Pambula	28.12.48	220	48.0	53.3
72	Vic, Tamboon Inlet	09.02.49	263	46.0	53.3

Experiment No. NSW 004

Place of release: Twofold Bay
 Number of fish released 50
 Per cent recaptured: 50.0

Date of release: 11 February 1963
 Lengths: (45-52 cm)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1-3	Eden	*	17.02.63	6			P
4	Wonboyn		18.02.63	7			P
5	Disaster Bay		23.02.63	12			P
6-7	Newtons Beach		24.02.63	13			P
8-13	Vic, Marlo		05.03.63	22		43.8	P
14-15	Calle Calle Bay		11.03.63	28			P
16	Vic, Lakes Entrance		15.03.63	32			P
17	" " (26 kmE)		17.03.63	34			P
18	" " (48 kmE)	*	21.03.63	38		55.9	P
19	Vic, Sealers Cove		17.04.63	65		45.7	A?
20	Vic, Lakes Entrance		23.04.63	71			P
21	Eden		25.05.63	103			P
22	Disaster Bay		" "	" "		52.1	P
23	Vic, Tamboon Inlet		14.06.63	123			P
24	Vic, Mallacoota		22.08.63	192		53.3	P?
25	Broulee		01.12.63	293			P

Experiment No. NSW 005

Place of release: Twofold Bay
 Number of fish released 50
 Per cent recaptured: 28.0

Date of release: 14 February 1963
 Lengths: (41-51 cm)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Disaster Bay		17.02.63	3			P
2	" "		23.02.63	9			P
3	Eden	*	25.02.63	11			P
4-5	Vic, Marlo		05.03.63	19		43.8	P
6-7	Calle Calle Bay		11.03.63	25			P
8-9	Vic, Lakes Entrance (26 km E)		17.03.63	31			P
10	Vic, Lakes Entrance (48 km E)	*	21.03.63	35			P
11	Vic, Lakes Entrance		23.04.63	68			P
12	Eden	*	22.06.63	128			P
13	Logans Beach		19.11.63	278			P
14	Broulee		01.12.63	290		47.0	P

Experiment No. NSW 006

Place of release: Twofold Bay
 Number of fish released: 100
 Per cent recaptured: 26.0

Date of release: 23 February 1963
 Lengths: [33-40 cm (10%), 44-53 cm (90%)]

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Wonboyn	24.02.63	1			P
2	Newtons Beach	"	"			P
3	Mowwarry	26.02.63	3		53.3	A
4	Vic, Mallacoota	01.03.63	6		55.2	A
5-10	Vic, Marlo	05.03.63	10		43.8	P
11-16	Calle Calle Bay	11.03.63	16			P
17-18	Vic, Lakes Entrance	15.03.63	20			P
19-20	" " "	23.04.63	59			P
21	" " "	"	"		54.6	P
22	Black Head	01.06.63	98			P
23	Saltwater Creek	31.07.63	158			P
24	Wonboyn	01.08.63	159			P
25	Merimbula	30.11.63	280		49.0	P
26	Eden	22.04.64	424			P

Experiment No. NSW 007

Place of release: Wonboyn
 Number of fish released: 50
 Per cent recaptured: 14.0

Date of release: 18 October 1963
 Lengths: [43-52 cm (99.5%), 57 cm (0.5%)]

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Wonboyn	18.10.63	0			P
2-3	Merimbula	30.11.63	43			P
4	" "	"	"		46.9	P
5	" "	"	"		49.0	P
6	Broulee	01.12.63	44		48.0	P
7	Eden	21.04.64	186		46.0	P

Experiment No. NSW 008

Place of release: Twofold Bay
 Number of fish released: 47
 Per cent recaptured: 4.3

Date of release: 27 January 1964

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1	Vic, Lakes Entrance		25.04.64	90		P
2	Nowra	*	19.08.64	206		P

Experiment No. NSW 009

Place of release: Black Head
 Number of fish released: 99
 Per cent recaptured: 27.3

Date of release: 27 May 1964
 Lengths: (43-52 cm)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1-2	Wonboyn	*	15.06.64	19		P
3	Vic, Lakes Entrance		15.06.64	"		P
4	Stony River		17.06.64	21	45.0	P
5	Eden	*	20.06.64	24		P
6	Iron Prince Reef		20.06.64	"		P
7-9	Vic, Lakes Entrance		26.06.64	30		P
10	Eden	*	28.06.64	32		P
11-12	Vic, Lakes Entrance		10.07.64	44		P
13	" " "	*	12.07.64	46	48.3	A
14	Disaster Bay		21.07.64	55	61.0	P
15	Pinnacles Beach		31.07.64	65		P
16	Haycock Beach		01.08.64	66		P
17	Wonboyn		11.08.64	76	58.4	P
18	Moruya		08.09.64	165		P
19	Nowra		26.09.64	183		P
20	Wreck Bay		01.12.64	188	57.2	P
21	Pambula		15.12.64	202		P
22	Eden		01.01.65	219		P
23-24	Logans Beach		14.01.65	232		P
25	Narooma		20.04.65	328	52.7	A
26	Vic, Lakes Entrance	*	02.05.65	340		P
27	Port Stephens		22.09.66	848	64.1	A

Experiment No. NSW 010

Place of release: Haycock Beach
 Number of fish released: 50
 Per cent recaptured: 24.0

Date of release: 15 July 1964
 Lengths: (44-53 cm)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1-3	Haycock Beach	01.08.64	17			P
4-7	Pinnacles Beach	04.08.64	20			P
8-9	Moruya	* 10.08.64	26			P
10	Broulee	14.09.64	122		48.3	P
11	"	30.09.64	138		49.5	P
12	New South Wales	20.06.66	705			P

Experiment No. NSW 011

Place of release: Pinnacles Beach
 Number of fish released: 100
 Per cent recaptured: 13.0

Date of release: 4 August 1964
 Lengths: (44-53 cm)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Boydton	27.08.64	23			P
2	Tathra	19.09.64	46		48.3	A?
3	"	26.10.64	83		48.3	A
4	Moruya	12.11.64	100			P
5	Nowra	26.11.64	114			P
6-7	Broulee	30.11.64	118		49.5	P
8	Binge Binge Beach	* 09.12.64	127		48.3	P
9	" " "	" "	"		50.8	P
10	Malu Beach	* 11.01.65	160		41.3	A
11	Eden	16.01.65	165			P
12	Tabourie Beach	04.04.65	243		49.5	P
13	Nowra	* 26.05.65	295			P

Experiment No. NSW 012

Place of release: Wonboyn
 Number of fish released: 100
 Per cent recaptured: 18.0

Date of release: 22 September 1964
 Lengths: [41-54 cm (90%), 57-61 cm (10%)]

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1-2	Wonboyn		26.10.64	34		P
3	Vic, Marlo		27.11.64	66	49.5	A
4	Binge Binge Beach	*	09.12.64	78	50.2	P
5	Pambula		15.12.64	84		P
6	Wonboyn		19.12.64	88		P
7	Eden		01.01.65	101		P
8	"		10.01.65	110		P
9	Vic, Lakes Entrance		18.01.65	118		P
10	" " " (18 km E)		08.02.65	139		P
11	Eden		10.02.65	141		P
12	Wonboyn		26.02.65	157		P
13	Tollgate Island		18.03.65	177	58.4	P
14	Racecourse Beach	*	31.03.65	190	55.9	P
15	Moruya		01.04.65	191		P
16	Saltwater Creek		27.05.65	247		P
17	New South Wales		20.06.66	636		P
18	" " "		31.01.67	861		P

Experiment No. NSW 013

Place of release: Twofold Bay
 Number of fish released: 4
 Per cent recaptured: 25.0

Date of release: 12 December 1964

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1	Vic, Lakes Entrance	*	26.02.65	76	40.6	P

Experiment No. **NSW 014**

Place of release: Mowwarry
 Number of fish released: 1
 Per cent recaptured: 100.0

Date of release: 14 December 1964

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Eden	* 28.05.65	165			P

Experiment No. **NSW 015**

Place of release: Twofold Bay
 Number of fish released: 45
 Per cent recaptured: 15.6

Date of release: 4 January 1965

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1-3	Saltwater Creek	10.02.65	37			P
4	Wonboyn	17.02.65	44			P
5	Eden	* 15.05.65	131			P
6	"	* 28.05.65	144			P
7	Moruya	25.09.65	264			P

Experiment No. **VIC 001**

Place of release: Lakes Entrance
 Number of fish released: 55
 Per cent recaptured: 7.3

Date of release: 4 December 1939
 Lengths: 24-31 cm (49); 32-35 cm (6)
 Tag type: Strap

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Lakes Entrance	18.12.39	14	27.0	28.5	
2	" "	12.01.40	39	24.0	30.0	
3	" "	" "	" "	26.0	30.0	
4	" "	22.04.40	140	28.0	35.0	

Experiment No. VIC 002

Place of release: Lakes Entrance
 Number of fish released: 66
 Per cent recaptured: 10.6

Date of release: 6 December 1939
 Lengths: 25-36 cm (46); 38-45 cm (20)
 Tag type: Strap

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Lakes Entrance	10.12.39	4	25.5	29.0	
2	" "	24.12.39	18	27.0	29.2	
3	" "	25.12.39	19	27.0	31.7	
4	" "	"	"	31.0	31.7	
5	" "	"	"	41.5	38.1	
6	" "	28.12.39	22	28.5	31.7	
7	" "	30.12.39	24	27.5	28.3	

Experiment No. VIC 003

Place of release: Lakes Entrance
 Number of fish released: 105
 Per cent recaptured: 9.5

Date of release: 7 December 1939
 Lengths: 24-33 cm (80); 39-47 cm (25)
 Tag type: Strap

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Lakes Entrance	26.12.39	19	26.5	27.3	
2	" "	27.12.39	20	28.0	29.8	
3	" "	28.12.39	21	28.0	29.8	
4	" "	"	"	28.0	29.2	
5	" "	29.12.39	22	27.0	29.8	
6	" "	09.01.40	33	41.0	37.5	
7	" "	12.01.40	36	26.0		
8	" "	15.01.40	39	27.0	28.9	
9	" "	26.01.40	50	27.0	29.8	
10	" "	30.01.40	54	25.5	27.3	

Experiment No. VIC 004

Place of release: Wingan Inlet
 Number of fish released: 139
 Per cent recaptured: 7.9

Date of release: 14 September 1942
 Lengths: 38-40 cm (3); 43-54 cm (137)
 Tag type: Strap

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Lakes Entrance	*	30.09.42	16	49.0		
2	" "		"	"	51.0		
3	" "		30.09.42	"	50.0		
4	" "		13.10.42	29	48.0		P
5	Wingan Inlet		"	"	53.0		P
6	Lake King		25.10.42	41	43.0	43.0	
7	Marlo		26.10.42	42	50.0	50.0	
8	Mallacoota		28.10.42	44	45.0		
9	Metung		01.11.42	48	45.0		
10	Seaspray		07.11.42	54	44.0		A
11	Metung		16.11.42	63	46.0		P

Experiment No. VIC 005

Place of release: Wingan Inlet
 Number of fish released: 555
 Per cent recaptured: 3.1

Date of release: 15 September 1942
 Lengths: 37-54 cm (555)
 Tag type: Strap

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Wingan Inlet		13.10.42	28	52.0		P
2	Bancroft Bay		18.10.42	33	47.0		
3	" "		30.10.42	45	44.0		
4	Wingan Inlet	*	31.10.42	46	49.0		P
5	Metung		01.11.42	47	43.0		
6	"		15.11.42	61	52.0	57.0	
7	NSW, Eden cannery		"	"	48.0		P
8	Tambo River		"	"	52.0	55.0	
9	Metung		16.11.42	62	43.0	50.0	
10	"		"	"	43.0		
11	NSW, Narooma Cannery		29.11.42	75	46.0		P
12	" " "		"	"	48.0		P
13	Port Albert	*	30.11.42	76	40.5		
14	" "		"	"	45.6		
15	Seaspray		03.04.43	200	45.0		
16	"		"	"	50.0		
17	Lakes Entrance		07.08.47	1787	46.0		

Experiment No. VIC 006

Place of release: Wingan Inlet
 Number of fish released: 64
 Per cent recaptured: 3.1

Date of release: 17 September 1942
 Lengths: 40 - 55 cm (64)
 Tag type: Strap

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Metung	16.11.42	60	40.0		P
2	"	"	"	48.0		P

Experiment No. VIC 007

Place of release: Wingan Inlet
 Number of fish released: 320
 Per cent recaptured: 3.4

Date of release: 19 September 1942
 Lengths: 34-38 cm (3); 40-51 cm (317)
 Tag type: Strap

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Wingan Inlet	* 31.10.42	42	45.0		P
2	" "	"	"	49.0		P
3	" "	"	"	50.0		P
4	Lakes Entrance	01.11.42	43	50.0		P
5	Metung	15.11.42	57	47.0	51.5	
6	"	"	"	48.0	55.0	
7	Seaspray	"	"	46.0		A
8	Metung	16.11.42	58			P
9	"	"	"	45.0		P
10-11	"	"	"	47.0		P

Experiment No. VIC 008

Place of release: Wigan Inlet
 Number of fish released: 445
 Per cent recaptured: 1.8

Date of release: 20 September 1942
 Lengths: 41-54 cm (445)
 Tag type: Strap

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1	Lakes Entrance	*	30.09.42	10	45.0	
2	Metung		13.10.42	23	46.0	P
3	Bancroft Bay		18.10.42	28	49.0	
4	Port Albert		27.10.42	37	48.0	
5	Metung		01.11.42	42	45.0	
6	"		"	"	46.0	
7	Lakes Entrance		03.11.42	44	47.0	P
8	Wigan Inlet		25.11.42	66	50.0	P

Experiment No. VIC 009

Place of release: Wigan Inlet
 Number of fish released: 241
 Per cent recaptured: 3.7

Date of release: 21 September 1942
 Lengths: 42-53 cm (241)
 Tag type: Strap

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1	Lakes Entrance		13.10.42	22	49.0	
2	" "		14.10.42	23	48.0	P
3	Port Albert		27.10.42	36	43.0	P
4	Wigan Inlet	*	31.10.42	40	46.0	P
5	" "		"	"	47.0	P
6	" "		"	"	53.0	P
7	Metung		16.11.42	56		P
8	"		"	"	47.0	P
9	Port Albert	*	30.11.42	70	48.0	

Experiment No. VIC 010

Place of release: Wingan Inlet
 Number of fish released: 179
 Per cent recaptured: 5.0

Date of release: 22 September 1942
 Lengths: 37-39 cm (5); 40-56 cm (174)
 Tag type: Strap

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Marlo	03.10.42	11	46.0		
2	Lake Victoria	05.10.42	13	42.0		
3	Bancroft Bay	18.10.42	26	44.0		
4	NSW, Pambula	27.10.42	35	50.0		
5	Wingan Inlet	* 31.10.42	39	46.0		P
6	Metung	01.11.42	40	47.0		
7	Sydenham Inlet	02.11.42	41	48.0		
8	Metung	16.11.42	55	45.0	52.0	
9	Lakes Entrance	17.11.42	56	49.0		P

Experiment No. VIC 011-015

Place of release:
 Number of fish released:
 Per cent recaptured:

Date of release:
 Tag type: Petersen Disc (Blank Disc only)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Lakes Entrance	* 01.02.48	13-20			
2	Marlo	22.02.48	34-41		40.6	
3	"	"	"		45.7	
4	"	29.02.48	41-48			
5	"	06.03.48	47-54		43.2	
6	"	17.03.48	58-65		48.3	
7	Lakes Entrance	18.03.48	59-66			P
8	Marlo	24.03.48	65-72		40.6	
9	"	27.03.48	68-75		48.3	

Experiment No. VIC 011

Place of release: Lakes Entrance
 Number of fish released: 214
 Per cent recaptured: 2.3

Date of release: 12 January 1948
 Lengths: 36-47 cm (214)
 Tag type: # Petersen (97); Tape (27)
 † Strap (90)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
# 1	Metung	19.01.48	8	45.0	
# 2	Lakes Entrance	20.01.48	9	42.0	
# 3	" "	"	"	43.0	
# 4	" "	* 28.02.48	48	41.0	
† 5	NSW, Disaster Bay	* 23.08.48	225	39.0	P

Experiment No. VIC 012

Place of release: Lakes Entrance
 Number of fish released: 53
 Per cent recaptured: 1.9

Date of release: 13 January 1948
 Lengths: 34-37 cm (4); 39-47 cm (49)
 Tag type: Strap

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1	Lakes Entrance	* 31.05.48	140	44.0	P

Experiment No. VIC 013

Place of release: Lakes Entrance
 Number of fish released: 233
 Per cent recaptured: 2.6

Date of release: 14 January 1948
 Lengths: 29 cm (1); 36-47 cm (232)
 Tag type: Petersen

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1	Lakes Entrance	26.01.48	13	43.0	
2	" " " "	30.01.48	17	43.0	
3	" " " "	"	"	46.0	A?
4	" " " "	03.02.48	21	45.0	A
5	Seaspray	08.02.48	26	43.0	
6	" "	09.02.48	27	44.0	

Experiment No. VIC 014

Place of release: Lakes Entrance
 Number of fish released: 329
 Per cent recaptured: 5.8

Date of release: 18 January 1988
 Lengths: 26-30 cm (6), 35-47 cm (44)
 Tag type: # Peterson (111);
 † Strap (47); Tape (171)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Lakes Entrance	*	22.01.48	5	40.0		
2	" "		"	"	42.0		
3	" " (19 km W)		26.01.48	9	42.0		
† 4	" "		27.01.48	10	41.0		
5	" "		30.01.48	13	43.0		
# 6	" "		"	"	43.0		
# 7	" "		01.02.48	15	41.0		
8	" " (29 km W)		19.02.48	33	42.0		
# 9	" "		22.02.48	36	40.0		
# 10	" "		"	"	45.0		A
11	Metung		01.03.48	44	39.0		
12	Marlo		26.03.48	69	40.0	45.7	
13	"		"	"	44.0	45.7	
14	NSW, Huskisson		28.07.48	193			
15	NSW, Disaster Bay	*	23.08.48	219	40.0		P
16	Gabo		30.08.48	226	47.0	46.4	P
17	Lakes Entrance		19.09.48	246	39.0	45.7	A
18	Waterloo Bay		26.10.48	283	41.0	45.1	
19	Marlo		23.12.48	341	42.0		

Experiment No. VIC 015

Place of release: Lakes Entrance
 Number of fish released: 162
 Per cent recaptured: 7.4

Date of release: 19 January 1948
 Lengths: 37-46cm? (lengths at release lost)
 Tag type: # Peterson (48); † Strap (55);
 Tape (59)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	recapture	Returned by
# 1	Lakes Entrance	20.01.48	3	44.0		
# 2	Seaspray	* 22.01.48	5	40.0	35.6	
† 3	Marlo	27.01.48	10	45.0		
† 4	Lakes Entrance	10.02.48	24	40.0		
# 5	Marlo	15.02.48	29	37.0	43.2	A
# 6	Lakes Entrance	09.03.48	52	46.0		
# 7	Seaspray	06.04.48	80	42.0		
† 8	NSW, Boydtown	26.04.48	98	42.0	53.7	
† 9	NSW, Moruya	14.05.48	118	43.0	44.4	P
10	NSW, Disaster Bay	* 23.08.48	219	44.0		P
11	Gabo	30.08.48	226	41.0	41.7	P
† 12	"	"	"	43.0	45.7	P

Experiment No. VIC 016

Place of release: Lakes Entrance

Date of release: 22 April 1952

Number of fish released: 200

Per cent recaptured: 15.5

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Metung	23.04.52	1		53.3	
2	Port Welshpool	06.05.52	14		48.3	P
3	Lakes Entrance	12.05.52	20		52.1	P
4	" "	" "	" "		54.6	
5	Kent Islands	14.05.52	22		35.6	P
6	Lake Tyers	18.05.52	26		45.7	
7	Lakes Entrance	28.05.52	36		44.4	
8	NSW, Wonboyn	09.06.52	48		47.3	P
9	" "	18.06.52	57		47.0	
10	" "	" "	" "		47.6	P
11	Mallacoota	25.06.52	64		45.7	P
12	NSW, Wonboyn	15.07.52	84		45.1	
13	" "	" "	" "		46.4	
14	" "	" "	" "		47.0	
15	" "	22.07.52	91		43.8	
16-18	" "	* 01.09.52	132			
19	NSW, Eden	11.09.52	142		46.4	
20	Mornington	12.09.52	143		48.3	
21	NSW, Ulladulla	16.09.52	147		49.5	
22	Mallacotta	14.10.52	175			
23	NSW, Merimbula	13.11.52	205		47.0	P
24-25	New South Wales	* 30.11.52	222			
26	Lake Tyers	02.12.52	224			
27	NSW, Tathra	03.03.53	315		45.7	
28	NSW, Narooma	18.03.53	330		47.0	P
29-30	NSW, Wonboyn	* 31.03.53	343			P
31	SA, Port Neill	30.10.54	921			

Experiment No. VIC 017

Place of release: Lakes Entrance Date of release: 23 April 1952

Number of fish released: 100

Per cent recaptured: 19.0

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Lakes Entrance	20.05.52	27		41.9	
2	Seaspray	22.05.52	29		41.9	
3	NSW, Wonboyn	09.06.52	47		47.6	P
4	" "	18.06.52	56		47.6	P
5	" "	22.07.52	90		45.7	
6	" "	"	"		47.0	
7	" "	"	"		47.6	
8	Mallacotta	* 31.08.52	130			P
9	NSW, Wonboyn	* 01.09.52	131			
10	" "	"	"		47.0	
11	" "	23.09.52	153		44.4	
12	" "	"	"		47.0	
13	NSW, Merimbula	04.10.52	164		44.4	
14	Lakes Entrance	21.10.52	181		38.7	
15	NSW, Merimbula	13.11.52	204		47.0	
16	NSW, Eden	14.11.52	205		50.8	
17	NSW, Jervis Bay	15.11.52	206		45.7	
18	Port Welshpool	19.01.53	271		55.9	
19	NSW, Wonboyn	* 31.03.53	343			P

Experiment No. VIC 018

Place of release: Lakes Entrance
 Number of fish released: 300
 Per cent recaptured: 15.7

Date of release: 5 January 1956
 Lengths: 42-48 cm (22)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Lake Tyers	07.01.56	3		50.8	
2-3	Lakes Entrance	"	"		50.8	
4	" "	08.01.56	4		51.4	
5	Marlo	"	"		50.8	
6	Lake Tyers	"	"			A
7	Lakes Entrance	09.01.56	5		40.6	
8	" "	10.01.56	6		54.6	
9	" "	12.01.56	8		53.3	
10	Marlo	"	"		48.3	
11	Lakes Entrance	13.01.56	9			A
12	Marlo	14.01.56	10		57.1	A
13	Lakes Entrance	15.01.56	11		53.3	
14	" "	16.01.56	12	44.2	50.8	
15	" "	"	"		45.7	
16	" "	"	"		52.7	A
17	Paynesville	"	"		57.1	P
18	Gippsland Lakes	17.01.56	13		49.5	
19	Lakes Entrance	"	"		50.8	
20	" "	20.01.56	16		54.6	
21	Seaspray	21.01.56	17		42.9	
22	Lakes Entrance	22.01.56	18		52.7	
23	" "	"	"		53.3	
24	" "	23.01.56	19		52.7	
25	" "	"	"		54.6	
26	Lake Tyers	"	"		53.3	A
27	Seaspray	24.01.56	20		52.1	
28	Lakes Entrance	27.01.56	23		48.3	
29	" "	"	"		53.3	
30	" "	28.01.56	24		53.3	
31	" "	29.01.56	25		47.0	A
32	" "	"	"		56.5	A
33	" "	30.01.56	26		48.3	A
34	" "	02.02.56	29		50.8	A?
35	Kilcunda	"	"	44.5	43.8	
36	Norman Bay	08.02.56	35	43.0	48.3	A
37	McGaurans Beach	"	"		52.1	
38	Marlo	25.02.56	52			
39	Seaspray	02.03.56	58		54.6	
40	Lakes Entrance	04.03.56	60			A
41	" "	02.04.56	89		50.8	
42	Marlo	"	"		49.5	

Experiment No. VIC 018 Cont.

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
43	Lakes Entrance	26.04.56	113			
44	Tasmania	* 30.04.56	117			P
45-46	Lakes Entrance	* 31.05.56	148			P
47	Sydenham Inlet	22.06.56	170		51.4	A

Experiment No. VIC 019

Place of release: Lakes Entrance
 Number of fish released: 102
 Per cent recaptured: 56.9

Date of release: 17 April 1963
 Lengths: [27-35 cm (95%); 50 cm (5%)]
 Subspecies: Eastern (75%); Western (25%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
1	Ocean Grange	18.04.63	1		53.7	A
2-4	Lakes Entrance	20.04.63	3			P
5	" "	23.04.63	6		28.0	P
6	" "	" "	" "		33.1	P
7	" "	" "	" "		34.5	P
8	Shallow Inlet	05.05.63	18		41.9	
9-10	Lakes Entrance	16.06.63	60			P
11-13	" "	" "	" "		30.0	P
14	" "	" "	" "		30.4	P
15	" "	" "	" "		31.2	P
16	" "	" "	" "		31.3	P
17	" "	" "	" "		32.0	P
18	" "	" "	" "		32.3	P
19	" "	" "	" "		32.5	P
20	" "	" "	" "		33.0	P
21	" "	" "	" "		33.7	P
22	" "	" "	" "		34.0	P
23	" "	" "	" "		38.0	P
24-25	Manns Beach	23.06.63	67		35.6	P
26	Mallacoota	23.08.63	128			P
27	Manns Beach	* 31.08.63	136			P
28	Tamboon Inlet	09.09.63	145		38.7	P
29-30	Cape Conran	10.10.63	176			P

Experiment No. VIC 019 cont.

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
31	Manns Beach		13.10.63	179	38.4	A?
32-33	NSW, Wonboyn	*	13.01.64	271		P
34	NSW, Eden	*	28.02.64	317	48.3	P
35	Lakes Entrance (32 km W)		25.05.64	404		P
36-37	" "		" "	"		P
38	" (64 km E)		29.05.64	408		P
39	" " "		" "	"	37.0	P
40	" " "		" "	"	41.0	P
41	" " "		" "	"	44.0	P
42	" " "		26.06.64	436		P
43	" " "		10.07.64	450		P
44-45	NSW, Eden	*	31.12.64	624		P
46-47	" "		10.02.65	665		P
48	NSW, Saltwater Creek		" "	"		P
49	NSW, Wonboyn		11.02.65	666		P
50	NSW, Pinnacles		23.02.65	678		P
51	Lakes Entrance	*	26.02.65	681		P
52	" "		26.02.65	"		P
53	NSW, Moruya		02.04.65	716		P
54	Lakes Entrance		01.09.65	868		P
55	NSW, Moruya		25.09.65	892		P
56	NSW, Eden	*	31.12.65	989		P
57	" "		04.02.66	1024		P
58	WA, Bremer Bay		30.08.67	1596		P

Experiment No. VIC 021

Place of release: Lakes Entrance
 Number of fish released: 168
 Per cent recaptured: 47.0

Date of release: 23 April 1963
 Lengths: (29-34 cm)
 Subspecies: Eastern (65%); Western (35%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1	Lake King	19.04.63	6		P
2-6	Lakes Entrance	16.06.63	54		P
7	" "	"	"	28.0	P
8-9	" "	"	"	29.0	P
10-11	" "	"	"	30.0	P
12	" "	"	"	30.2	P
13	" "	"	"	30.3	P
14-15	" "	"	"	30.7	P
16-22	" "	"	"	31.0	P
23-24	" "	"	"	31.2	P
25	" "	"	"	31.3	P
26-28	" "	"	"	31.5	P
29	" "	"	"	31.6	P
30	" "	"	"	31.8	P
31-32	" "	"	"	32.0	P
33-36	" "	"	"	32.5	P
37	" "	"	"	33.0	P
38	" "	"	"	33.7	P
39-44	" "	"	"	34.0	P
45	" "	"	"	34.3	P
46	" "	"	"	34.5	P
47	" "	"	"	35.0	P
48	" "	"	"	35.4	P
49	" "	"	"	30.6	P
50	" "	"	"	32.2	P
51	Manns Beach	23.06.63	61	35.5	P
52	Tamboon Inlet	31.07.63	99	35.6	P
53	Manns Beach	22.09.63	152	33.0	
54	Cape Conran	10.10.63	170		P
55	Paynesville	02.12.63	223	34.9	P
56	Lakes Entrance	* 06.12.63	227	34.3	P
57	" "	30.01.64	282		P
58	Oberon Bay	* 15.04.64	358		P
59	Lakes Entrance	* 18.04.64	361		P
60	NSW, Moruya	03.05.64	376	36.0	P
61-64	Lakes Entrance	25.05.64	398		P
65	" " (65 km E)	29.05.64	402	38.0	P
66	" "	"	"	39.0	P
67	" "	26.06.64	430		P
68	Cape Conran	03.07.64	437		P

Experiment No. VIC 021 cont.

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
69	NSW, Wonboyn		26.10.64	552			P
70-72	NSW, Eden	*	31.12.64	618			P
73-75	NSW, Wonboyn		13.01.65	631			P
76	NSW, Logans Beach		14.01.65	632			P
77	NSW, Eden		16.01.65	634			P
78	Lakes Entrance	*	26.02.65	675			P
79	" "		21.03.65	698			P

Experiment No. VIC 022

Place of release: Flannigan Island Date of release: 6 May 1963

Number of fish released: 64

Lengths: (16.5-21.5 cm)

Per cent recaptured: 46.9

Subspecies: Eastern (65%); Western (35%)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
1	Reeves Channel		07.05.63	1			P
2	Bancroft Bay		09.05.63	3		21.6	P
3	Metung		15.05.63	9		24.8	P
4-5	Reeves Channel	*	19.05.63	13			P
6	Metung		22.05.63	16		22.9	P
7-8	Reeves Channel		23.05.63	17			P
9	Lakes Entrance		27.05.63	21		27.9	A
10	Lake Bunya		28.05.63	22		21.6	A
11	Bancroft Bay	*	31.05.63	25		21.6	P
12	" "		" "	" "		23.5	P
13	" "		" "	" "		24.1	P
14	Lakes Entrance		06.06.63	31		21.0	P
15	Metung		09.06.63	34		22.9	P
16	"		12.06.63	37		21.6	P
17	Bancroft Bay		18.06.63	43		22.9	P
18	Reeves Channel		27.06.63	52			P
19	" "	*	31.07.63	86		22.2	P
20	" "		" "	" "		22.9	P
21	" "	*	30.08.63	116			P
22	Pelican Island		12.10.63	159			P
23	Lakes Entrance		17.10.63	164		22.0	P
24	" "		29.10.63	176		25.4	A
25	Gippsland Lakes	*	25.11.63	203			P
26-27	Lakes Entrance		30.01.64	269			P
28	NSW, Wonboyn		29.03.64	328		35.6	A
29	Lakes Entrance (51 km E)		31.05.64	391			P
30	" "		26.02.65	662			P

Experiment No. VIC 023

Place of release: Flannigan Island Date of release: 7 May 1963

Number of fish released: 66

Lengths: (16.5 - 21.5 cm)

Per cent recaptured: 34.8

Subspecies: Eastern (65%); Western (35%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
1	Metung	19.05.63	12	21.0		P
2	Bancroft Bay	* 31.05.63	63	21.6		P
3	" "	"	"	22.9		P
4	" "	"	"	23.5		P
5-7	" "	"	"	24.1		P
8-9	" "	"	"	24.8		P
10	" "	26.06.63	50	21.0		P
11	Reeves Channel	27.06.63	51			P
12-14	" "	* 31.07.63	85	21.6		P
15-16	" "	"	"	22.9		P
17	Lakes Entrance	23.08.63	108	22.9		A
18	Reeves Channel	* 30.08.63	115			P
19	Gippsland Lakes	20.12.63	227			P
20	Lakes Entrance	* 10.05.64	369			P
21-22	" " (32 km W)	25.05.64	384			P
23	Port Welshpool	10.01.66	979			P

Experiment No. VIC 024

Place of release: Flannigan Island Date of release: 8 May 1963

Number of fish released: 38

Lengths: (17.5 - 21.7 cm)

Per cent recaptured: 52.6

Subspecies: Eastern (32%); Western (68%)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1-2	Metung		28.05.63	20		24.1	P
3	Bancroft Bay	*	31.05.63	23		23.5	P
4	" "		"	"		25.4	P
5	Reeves Channel		16.06.63	39		22.9	P
6	Bancroft Bay		18.06.63	41		22.9	P
7	Reeves Channel	*	31.07.63	84		21.6	P
8	" "		"	"		22.2	P
9-11	" "		"	"		22.9	P
12	" "		"	"		23.5	P
13	Bancroft Bay		"	"			P
14	" "	*	04.08.63	88		22.9	P
15	" "		"	"		24.1	P
16	Lakes Entrance		17.08.63	101		26.0	P
17	Kalimna		22.08.63	106		29.2	A
18	Reeves Channel	*	30.08.63	114			P
19	Gippsland Lakes		06.09.63	121		22.9	P
20	Lakes Entrance	*	05.03.64	302		28.0	A

Experiment No. VIC 025

Place of release: Flannigan Island Date of release: 9 May 1963
 Number of fish released: 58 Lengths: (17.2 - 20.2 cm)
 Per cent recaptured: 48.3 Subspecies: Eastern (40%); Western (60%)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1-5	Reeves Channel		12.05.63	3			P
6-7	" "		21.05.63	12		23.5	P
8	Bancroft Bay	*	31.05.63	22		22.9	P
9	" "		"	"		23.5	P
10	Reeves Channel		05.06.63	27		20.3	P
11	" "		"	"		21.0	P
12	" "		"	"		21.6	P
13-14	" "		"	"		22.2	P
15	" "		"	"		22.9	P
16	" "		"	"		24.1	A
17-18	" "		"	"		24.1	P
19	" "		"	"		25.4	P
20	Bancroft Bay	*	04.08.63	87		21.6	P
21	Pelican Island		12.10.63	156			P
22	Gippsland Lakes		11.11.63	186			P
23	" "	*	25.11.63	200			P
24	" "	*	30.12.63	235			P?
25-26	Lakes Entrance		30.01.64	266			P
27	" "	*	26.04.64	353			P
28	" "		26.02.65	659			P

Experiment No. VIC 026

Place of release: Fraser Island Date of release: 12 May 1963
 Number of fish released: 68 Lengths: (17.7-19.6 cm)
 Per cent recaptured: 29.4 Subspecies: Eastern (40%); Western (60%)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1	Reeves Channel		30.05.63	18		P
2-3	Bancroft Bay	*	31.05.63	19	22.2	P
4	" "		"	"	22.9	P
5	" "		"	"	23.5	P
6	Metung		27.06.63	46	21.6	P
7	Reeves Channel	*	31.07.63	80	20.3	P
8-11	" "		"	"	21.6	P
12	Lakes Entrance	*	28.08.63	108	22.9	P
13	Reeves Channel	*	30.08.63	110		P
14-15	Pelican Island		12.10.63	153		P
16-17	Lakes Entrance		30.01.64	263		P
18	" "	*	26.04.64	350		P
19	" "		29.12.64	597		P
20	" "		14.05.65	733		P

Experiment No. VIC 027

Place of release: Fraser Island Date of release: 13 May 1963
 Number of fish released: 72 Lengths: (17.7 - 19.6 cm)
 Per cent recaptured: 6.9 Subspecies: Eastern (40%); Western (60%)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1	Bancroft Bay	*	31.05.63	18	24.1	P
2	Metung		02.06.63	20	19.7	P
3	Reeves Channel	*	31.07.63	79	21.6	P
4	" "	*	30.08.63	109		P
5	Lakes Entrance (32 km W)		25.05.64	378		P

Experiment No. VIC 028

Place of release: Rigby Island
 Number of fish released: 76
 Per cent recaptured: 28.9

Date of release: 14 May 1963
 Lengths: (19.5-21.7 cm)
 Subspecies: Eastern (36%); Western (64%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1	Reeves Channel	23.05.63	9		P
2	Lakes Entrance	26.05.63	12	23.5	A?
3-4	Reeves Channel	06.06.63	23		P
5	Metung	13.06.63	30	23.5	P
6	Lake Bunga	15.06.63	32	30.5	A
7-8	Reeves Channel	* 31.07.63	78	22.9	P
9-10	" "	" "	"	25.4	P
11	Lakes Entrance	18.07.63	65	26.7	A?
12	Bancroft Bay	* 04.08.63	82	27.3	P
13	Pelican Island	12.10.63	151		P
14	Lakes Entrance	30.01.64	261		P
15	" "	* 18.02.64	280	33.0	
16	" " (32 km w)	25.05.64	377		P
17	" "	* 31.12.64	597		P
18	NSW, Wreck Bay	03.02.65	631	41.6	A?
19	Lakes Entrance	14.05.65	731		P
20	" "	* 05.06.65	753		P
21	" "	* 31.12.65	962		P
22	Port Welshpool	29.01.66	991		P

Experiment No. VIC 029

Place of release: Rigby Island
 Number of fish released: 130
 Per cent recaptured: 25.4

Date of release: 15 May 1963
 Lengths: (19.5-22.5 cm)
 Subspecies: Eastern (50%), Western (50%)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1	Lakes Entrance		26.05.63	11	23.5	A?
2	Bancroft Bay	*	31.05.63	16		P
3	" "		"	"	25.4	P
4-5	Reeves Channel		06.06.63	22		P
6	Lakes Entrance		16.06.63	32	22.2	P
7	Metung		19.06.63	35	24.1	P
8	"		20.06.63	36	27.9	P
9	Bancroft Bay		26.06.63	42	21.0	P
10	" "		"	"	24.1	P
11	Lakes Entrance		"	"		P
12	Reeves Channel	*	31.07.63	77		P
13	" "		"	"	20.3	P
14-16	" "		"	"	22.9	P
17	" "		"	"	24.1	P
18	" "		01.10.63	139	33.0	P
19	Lake Tyers		04.01.64	234	27.9	A?
20-22	Lakes Entrance		30.01.64	260		P
23	" "		10.04.64	331	31.1	A
24	" "		25.04.64	346		P
25	" "	*	26.04.64	347		P
26	" (32 km W)		25.05.64	376		P
27	" (51 km E)		31.05.64	382		P
28	Metung		31.08.64	474		P
29	Lakes Entrance		18.01.65	614		P
30	" " (18 km E)		08.02.65	635		P
31	NSW, Eden		27.04.65	713		P
32	" "		02.05.65	718		P
33	Lakes Entrance	*	31.12.65	961		P

Experiment No. VIC 030

Place of release: Fraser Island
 Number of fish released: 37
 Per cent recaptured: 21.6

Date of release: 22 May 1963
 Lengths: (18.3-21.5 cm)
 Subspecies: Eastern (40%); Western (60%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
1	Reeves Channel	23.05.63	1			P
2	" "	30.05.63	8			P
3	Lakes Entrance	09.06.63	18		27.3	P?
4	Reeves Channel	27.06.63	36			P
5-6	" "	* 31.07.63	70		25.4	P
7	North Arm	05.10.63	136		26.7	A?
8	Lakes Entrance	17.01.65	606			P

Experiment No. VIC 031

Place of release: Cunningham Arm
 Number of fish released: 100
 Per cent recaptured: 1.0

Date of release: 25 May 1963
 Lengths: (17.7- 24.5 cm)
 Subspecies: Eastern (58%); Western (43%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
1	Marlo	25.04.64	336		31.7	A

Experiment No. VIC 032

Place of release: Cunningham Arm
 Number of fish released: 100
 Per cent recaptured: 0

Date of release: 26 May 1963
 Lengths: (17.7 - 24.5 cm)
 Tag type: Eastern (58%); Western (43%)

Experiment No. VIC 033

Place of release: Bulmers Jetty
 Number of fish released: 36
 Per cent recaptured: 19.4

Date of release: 27 May 1963
 Lengths: (17.5 - 22.0 cm)
 Subspecies: Eastern (33%); Western (67%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Reeves Channel	18.06.63	22			P
2	" "	* 31.07.63	65		20.3	P
3	" "	"	"		22.9	P
4	Bancroft Bay	* 04.08.63	69		26.7	P
5	Gippsland Lake	* 02.10.63	128		27.9	P
6	Lakes Entrance	30.01.64	248			P
7	" "	* 15.05.65	719		40.0	P

Experiment No. VIC 034

Place of release: Fraser Island
 Number of fish released: 113
 Per cent recaptured: 25.7

Date of release: 27 May 1963
 Lengths: (16.5 - 21.5 cm)
 Subspecies: Eastern (60%); Western (40%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1-3	Reeves Channel	30.05.63	3			P
4-5	" "	06.06.63	10			P
6	" "	27.06.63	31			P
7	Lakes Entrance	05.07.63	39		22.2	A
8	" "	"	"		24.1	A
9	Cunningham Arm	21.07.63	55		23.2	A
10-11	Reeves Channel	* 31.07.63	65			P
12	" "	"	"		19.7	P
13	" "	"	"		21.0	P
14-17	" "	"	"		22.9	P
18	" "	"	"		23.5	P
19	" "	"	"		25.4	P
20	Bancroft Bay	* 04.08.63	69			P
21	Lakes Entrance	27.08.63	92		21.6	P?
22	Reeves Channel	01.09.63	97		26.7	A
23	Cunningham Arm	02.09.63	98		23.5	A
24	Lakes Entrance	30.01.64	248			P
25	" "	26.04.64	335			P
26	" " (32 km W)	10.05.64	349			P
27	" " "	25.05.64	364		27.9	P
28	NSW, Eden	06.05.65	710			P
29	Lakes Entrance	14.05.65	718			P

Experiment No. VIC 035

Place of release: North Arm
 Number of fish released: 100
 Per cent recaptured: 29.0

Date of release: 27 May 1963
 Lengths: (16.5 - 21.5 cm)
 Subspecies: Eastern (60%); Western (40%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1-2	Reeves Channel	30.05.63	3			P
3	Bancroft Bay	* 31.05.63	4		22.2	P
4	" "	"	4		22.9	P
5-7	Reeves Channel	06.06.63	10			P
8	" "	18.06.63	22			P
9	" "	27.06.63	31			P
10-11	" "	* 31.07.63	65			P
12	" "	"	"		21.0	P
13	" "	"	"		21.6	P
14	" "	"	"		22.2	P
15-17	" "	"	"		22.9	P
18	" "	"	"		24.1	P
19	" "	"	"		26.0	P
20	North Arm	30.08.63	95		16.5	A
21	Reeves Channel	01.10.63	127		29.2	P
22	Pelican Island	12.10.63	138			P
23	Lakes Entrance	25.04.64	334			P
24	" "	17.01.65	601			P
25	" "	26.02.65	641			P
26	" "	* 05.06.65	740			P
27	Marlo	06.06.65	741		31.7	A
28	Lakes Entrance	* 31.12.65	949			P
29	NSW, Eden	14.01.66	963			P

Experiment No. VIC 036

Place of release: Cunningham Arm
 Number of fish released: 50
 Per cent recaptured: 0

Date of release: 28 May 1963
 Lengths: (17.7 - 24.5 cm)
 Subspecies: Eastern (58%); Western (43%)

Experiment No. VIC 037

Place of release: Bulmers Jetty
 Number of fish released: 100
 Per cent recaptured: 3.0

Date of release: 29 May 1963
 Lengths: (17.7 - 24.5 cm)
 Subspecies: Eastern (58%); Western (43%)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1-2	Reeves Channel		30.05.63	1		P
3	" "	*	31.07.63	63	20.3	P

Experiment No. VIC 038

Place of release: Bulmers Jetty
 Number of fish released: 156
 Per cent recaptured: 9.6

Date of release: 30 May 1963
 Lengths: (17.7 - 24.5 cm)
 Subspecies: Eastern (58%); Western (43%)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1	Lakes Entrance	*	06.06.63	7	19.0	P
2	Reeves Channel		18.06.63	19		P
3	Western Port Bay		17.07.63	48	23.0	P
4	Lakes Entrance		19.07.63	50	27.9	A
5	" "	*	23.07.63	54	22.9	A
6	Reeves Channel	*	31.07.63	62		P
7	Cunningham Arm		14.08.63	76		A
8	Lakes Entrance		17.08.63	79		
9	" "		04.10.63	127	25.4	A
10	McLaughans Inlet	*	28.12.63	212	27.9	A?
11	Gippsland Lakes	*	30.12.63	214		P?
12	Lakes Entrance (51 km E)		31.05.64	367		P
13	" "		27.10.64	516	35.6	A
14-15	" "		08.02.65	620		P

Experiment No. VIC 039

Place of release: Sydenham Inlet
 Number of fish released: 267
 Per cent recaptured: 50.6

Date of release: 13 June 1963
 Lengths: (41.5 - 50.0 cm)
 Subspecies: Eastern (100%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1-2	NSW, Mowwarry	21.06.63	8		P
3	Tamboon Inlet	25.06.63	12	45.1	
4	Lake Tyres	29.06.63	16		P?
5	NSW, Pambula	10.07.63	27		P
6-8	NSW, Kiah Beach	24.07.63	41		P
9	" " "	25.07.63	42		P
10	NSW, Fisheries Creek	26.07.63	43		P
11-16	NSW, Kiah Beach	29.07.63	46		P
17-19	NSW, Saltwater Creek	31.07.63	48		P
20	Tamboon Inlet	"	"	45.7	P
21	" "	"	"	47.0	P
22-25	NSW, Wonboyn	01.08.63	49		P
26	Mallacoota	22.08.63	70	43.0	P
27	"	"	"	50.8	P
28	"	"	"	54.9	P
29	"	"	"	55.2	P
30-46	"	"	"		P
47	Tamboon Inlet	09.09.63	88		P
48-49	" "	14.09.63	93	46.4	P
50	" "	"	"	50.2	P
51	" "	"	"	55.9	P
52	Mallacoota	15.09.63	94	56.5	P
53-54	Tamboon Inlet	20.09.63	99	54.6	P
55	" "	"	"	45.1	P
56-57	Mallacoota	23.09.63	102		P
58	NSW, Broulee	27.09.63	106	54.6	P?
59-61	Sydenham Inlet	29.09.63	108		P
62-63	" "	09.10.63	118	47.0	P
64	" "	"	"	42.0	P
65	" "	"	"		P
66-68	Cape Conran	10.10.63	119		P
69-71	Marlo	18.10.63	127		P
72	NSW, Wonboyn	"	"		P
73-79	NSW, Iron Prince Reef	19.10.63	128		P
80	NSW, Cuttagee Beach	11.11.63	151	47.0	A
81	NSW, Logans Beach	19.11.63	159		P
82-83	NSW, Mewtrees Beach	26.11.63	166		P
84	" " "	"	"	49.0	P
85	" " "	"	"	50.0	P
86	" " "	"	"	52.0	P
87	NSW, Merimbula	30.11.63	170	46.9	P

Experiment No. VIC 039 cont.

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
88-89	NSW, Broulee	01.12.63	171			P
90	" "	"	"		47.0	P
91	" "	"	"		48.0	P
92	NSW, Wreck Bay	06.12.63	176		54.5	P
93	NSW, Logans Beach	* 07.12.63	177		50.0	P
94	Letts Beach	* 18.12.63	188		47.0	A?
95	NSW, Mowwarry	19.12.63	189			P
96	NSW, Eden	20.12.63	190			P
97	Lakes Entrance	28.12.63	198			P
98	NSW, Tathra	31.12.63	201		47.0	P
99	NSW, Bermagui	01.01.64	202		49.5	P
100	NSW, Eden	20.01.64	221			P
101-103	NSW, Bermagui	21.01.64	222			P
104	NSW, Eden	23.01.64	224			P
105	" "	* 28.02.64	260		48.3	P
106	" "	* 01.03.64	262		47.0	P
107	" "	"	"		48.3	P
108-110	Lakes Entrance	* 18.04.64	310			P
111	Cape Everard	10.05.64	332		46.0	P
112	" "	"	"		47.0	P
113	" "	"	"		48.0	P
114	Lakes Entrance	* 10.05.64	"			P
115	NSW, Merimbula	17.05.64	339			P
116	NSW, Eden	18.05.64	340			P
117	NSW, Pambula	"	"			P
118	NSW, Tabourie	23.05.64	345		52.7	P
119-122	NSW, Eden	* 23.05.64	"			P
123	" "	* 24.05.64	346			P
124	" "	"	"		48.0	P
125	Pearl Point	26.06.64	379			P
126-127	Lakes Entrance	"	"			P
128	" "	10.07.64	393			P
129	NSW, Mollismook Beach	05.08.64	419		50.2	P
130	NSW, Eden	01.01.65	568			P
131	Lakes Entrance	* 02.05.65	689			P
132	NSW, New South Wales	* 31.10.65	871			P
133	NSW, Crockhaven Heads	13.09.66	1188		58.4	P
134	Gabo Island	17.02.68	1710		62.0	P
135	NSW, Nelson's Bay	20.02.69	2079		63.5	A

Experiment No. VIC 040

Place of release: Cape Everard
 Number of fish released: 165
 Per cent recaptured: 66.7

Date of release: 13 June 1963
 Lengths: (45.0 - 49.5 cm)
 Subspecies: Eastern (100%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Pearl Point	16.06.63	3		54.6	A
2	NSW, Mowwarry	21.06.63	8			P
3	NSW, Disaster Bay	22.06.63	9			P
4	NSW, Pambula	09.07.63	26		50.8	P
5	NSW, Merimbula	10.07.63	27		55.9	P
6-7	NSW, Kiah Beach	24.07.63	41			P
8-9	NSW, Saltwater Creek	25.07.63	42			P
10-12	" " "	26.07.63	43			P
13-30	NSW, Kiah Beach	29.07.63	46			P
31	NSW, Eden	"	"			P
32-34	NSW, Saltwater Creek	31.07.63	48			P
35	NSW, Wonboyn	01.08.63	49			P
36-44	Mallacoota	22.08.63	70			P
45	"	"	"		49.2	P
46-47	"	"	"		52.1	P
48-49	"	"	"		53.3	P
50	"	"	"		54.0	P
51	"	"	"		54.6	P
52	"	"	"		56.5	P
53	"	"	"		56.8	P
54	"	"	"		57.1	P
55-66	"	23.08.63	71			P
67	"	"	"		45.7	P
68-70	Tamboon Inlet	13.09.63	92			P
71-74	Mallacoota	23.09.63	102			P
75-76	"	"	"		54.0	P
77	"	"	"		54.6	P
78	Sydenham Inlet	29.09.63	108			P
79	Cape Conran	10.10.63	119			P
80-82	NSW, Wonboyn	18.10.63	127			P
83	Marlo	"	"			P
84-88	NSW, Iron Prince Reef	19.10.63	128			P
89	NSW, Mewtrees Beach	26.11.63	166		47.0	P
90	NSW, Merimbula	30.11.63	170		49.0	P
91	NSW, Logans Beach	* 10.12.63	180		47.0	P
92	NSW, Eden	17.12.63	187			P
93	NSW, Mowwarry	* 18.12.63	188			P
94	NSW, Eden	20.12.63	190			P
95-99	NSW, Tathra	31.12.63	201			P
100	NSW, Bermagui	21.01.64	222			P
101	Lakes Entrance	* 02.04.64	294			P

Experiment No. VIC 040 cont.

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	recapture	Returned by
102	NSW, Moruya	03.05.64	325			P
103	" "	"	"	48.0		P
104-105	NSW, Eden	* 23.05.64	345			P
106	NSW, Tabourie	23.05.64	"	52.1		P
107	NSW, Tathra	27.05.64	349			P
108	Gabo Island	27.06.64	380			P
109	NSW, Port Stephens	01.12.64	537	68.6		P
110	NSW, Broulee	15.03.66	1006	71.1		P

Experiment No. VIC 041

Place of release: Lakes Entrance
 Number of fish released: 164
 Per cent recaptured: 45.1

Date of release: 16 June 1963
 Lengths: (28.5 - 34.8 cm)
 Subspecies: Eastern (89%); Western (11%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1	Shoal Inlet	14.07.63	28	33.7	A
2	" "	"	"	39.4	A
3	Lakes Entrance	16.07.63	30	37.5	A
4	Tamboon Inlet	31.07.63	45	34.3	P
5	" "	"	"	35.6	P
6	" "	"	"	48.3	P
7	Cann River	01.08.63	46	31.7	A
8	" "	* 04.09.63	80	31.0	P
9	Tamboon Inlet	09.09.63	85	35.6	P
10	" "	"	"	36.2	P
11	" "	"	"	36.8	P
12	Melbourne Fish Market	* 30.09.63	106		P
13	" "	"	"	40.6	P
14	Manns Beach	06.10.63	112	39.4	A?
15-17	Cape Conran	10.10.63	116		P
18	Manns Beach	* 13.10.63	119	31.7	A
19	Cape Conran	23.11.63	160	38.1	A
20	Lakes Entrance	28.12.63	195		P
21	Marlo	21.01.64	219	41.9	A
22	Lakes Entrance	* 18.04.64	307		P
23	NSW, Moruya	03.05.64	322		P
24-30	Lakes Entrance	25.05.64	344		P
31	" " (64 km E)	29.05.64	348	38.0	P
32	" " " "	"	"	39.0	P
34-35	NSW, Worboyn	19.12.64	552		P
36-43	NSW, Eden	* 31.12.64	564		P
44	NSW, Wonboyn	09.01.65	573		P
45-46	" "	13.01.65	577		P
47	NSW, Logans Beach	14.01.65	578		P
48-49	NSW, Kiah Beach	16.01.65	580		P
50-52	NSW, Eden	"	"		P
53	NSW, Pinnacles Beach	17.02.65	612		P
54	Lakes Entrance	26.02.65	621		P
55-56	NSW, Haycock Beach	29.03.65	652		P
57	Lakes Entrance	22.04.65	676		P
58	NSW, Wonboyn	26.04.65	680		P
59-66	NSW, Eden	* 28.04.65	682		P
67	" "	06.05.65	690		P
68	NSW, Jane Speers Beach	11.05.65	695		P
69	NSW, Saltwater Creek	27.05.65	711		P
70	NSW, Moruya	25.09.65	832		P

Experiment No. VIC 041 cont.

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
71	NSW, Merimbula	07.11.65	875			P
72-73	NSW, New South Wales	* 25.10.66	1227			P
74	WA, Cheyne Beach	08.03.68	1727			P

Experiment No. VIC 042

Place of release: Portland
 Number of fish released: 90
 Per cent recaptured: 16.7

Date of release: 27 September 1963
 Lengths: (40-55 cm)
 Subspecies: Eastern (44%); Western (56%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
1	Lakes Entrance (16 km west)	02.04.64	188		48.0	P
2	Lakes Entrance	* 02.04.64	"			P
3	Oberon Bay	* 20.04.64	206			P
4	NSW, Eden	21.04.64	207		45.0	P
5	Tamboon Inlet	10.05.64	226			P
6	NSW, Eden	18.05.64	234			P
7	NSW, Pambula	* 21.05.64	237		48.0	P
8	NSW, Eden	28.06.64	275			P
9	" "	* 31.12.64	461			P
10	SA, Cape Cassini	* 28.10.65	762		54.6	P
11	" " "	* 28.10.65	"		61.0	P
12	WA, Bremer Bay	24.02.66	881			P
13	Western Australia	* 27.05.66	973			P
14	WA, Cheyne Beach	01.03.67	1251		65.0	P
15	" " "	06.03.67	1256			P

Experiment No. **VIC 043**

Place of release: Fitzroy River
 Number of fish released: 99
 Per cent recaptured: 15.2

Date of release: 10 October 1963
 Lengths: [34 cm (2%); 39-50 cm (98%)]
 Subspecies: Eastern (60%); Western (40%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Lakes Entrance	01.12.63	52		61.0	A
2	NSW, Bermagui	21.01.64	103			P
3	NSW, Eden	* 22.01.64	104			P
4	Lakes Entrance	* 17.04.64	190			P
5	NSW, Eden	* 05.05.64	208			P
6	NSW, Pambula	18.05.64	221			P
7	NSW, Eden	"	"			P
8-9	NSW, Pambula	21.05.64	224			P
10	NSW, Eden	* 23.05.64	226			P
11	" "	* 24.05.64	227			P
12	NSW, Wonboyn	28.06.64	262			P
13	" "	20.07.64	284			P
14	SA, Kangaroo Island	08.12.65	790		52.7	P
15	Western Australia	* 31.03.67	1268			P

Experiment No. **VIC 044**

Place of release: Marlo (16 km W)
 Number of fish released 50
 Per cent recaptured: 24.0

Date of release: 18 October 1963
 Lengths (41-51cm)
 Subspecies: Eastern (100%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	NSW, Logans Beach	19.11.63	32			P
2-3	NSW, Mewtrees Beach	26.11.63	39			P
4	" " "	"	"		42.5	P
5	Lakes Entrance (24 km W)	02.12.63	45		53.3	A
6	NSW, Eden	20.05.64	39			P
7	NSW, Wonbogen	04.05.64	199		55.2	P
8	NSW, Binge Binge Beach	"	"			P
9	Lakes Entrance (32 km W)	10.05.64	205			P
10	NSW, Pambula	18.05.64	213			P
11	NSW, Eden	23.05.64	218			P
12	" "	26.06.64	252			P

Experiment No. VIC 045

Place of release: Barwon River
 Number of fish released 7
 Per cent recaptured: 28.6

Date of release 22 January 1964
 Lengths: (18-20 cm)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
1	Barwon River	08.03.64	47		24.1	A
2	" "	13.03.64	52		19.0	A

Experiment No. VIC 046

Place of release: Lakes Entrance
 (32 km W)
 Number of fish released 50
 Per cent recaptured: 20.0

Date of release: 29 March 1964
 Lengths (24-37 cm)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	at recapture	Returned by
1	Lakes Entrance	* 25.04.64	27			P
2	Lakes Entrance	09.05.64	41			P
3-5	" " (32 km W)	25.05.64	57			P
6	" " (51 km E)	31.05.64	63			P
7	" "	29.12.64	275			P
8	" "	17.01.65	294			P
9-10	" "	18.01.65	295			P

Experiment No. **VIC 047**

Place of release: Lakes Entrance
(22 km E)

Number of fish released: 150

Per cent recaptured: 34.7

Date of release: 14 April 1964

Lengths: [40-53 cm (95%); 54-58 cm (5%)]

Tag Type: Eastern (100%)

Subspecies:

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Length (cm) at recapture	Returned by
1	Lakes Entrance	*	17.04.64	3			P
2	Corringle Beach		19.04.64	5		57.1	A?
3	Marlo		23.04.64	9		55.9	A
4	Lakes Entrance		03.05.64	19		53.3	A
5	" " (32 km E)		08.05.64	24			P
6-8	" " "		10.05.64	26			P
9-10	Tamboon Inlet		" "	"			P
11-12	NSW, Pambula		17.05.64	33			P
13	NSW, Eden		18.05.64	34			P
14	" "		" "	"		48.0	P
15	NSW, Pambula	*	21.05.64	37			P
16-19	NSW, Eden	*	23.05.64	39			P
20	NSW, Pambula		23.05.64	"			P
21-22	NSW, Pambula		24.05.64	40			P
23	NSW, Tathra		27.05.64	43			P
24-25	NSW, Eden	*	01.06.64	48			P
26	Gabo Island		05.06.64	52		50.8	P?
27	Tamboon Inlet		14.06.64	61		57.1	A
28	NSW, Stony River		17.06.64	64			P
29	NSW, Iron Prince Reef		20.06.64	67			P
30-37	Lakes Entrance		26.06.64	73			P
38-40	Cape Conran		10.07.64	87			P
41-43	Lakes Entrance	*	12.07.64	89			P
44	NSW, Wonboyn		15.08.64	123			P
45	Corringle Beach		24.08.64	132		54.6	A
46	NSW, Eden	*	31.12.64	261			P
47-48	NSW, Eden		01.01.65	262			P
49	NSW, Wonboyn		04.01.65	265			P
50	NSW, Kiah Beach	*	10.02.65	302			P
51	NSW, Eden		05.06.65	417			P
52	NSW, Forster		04.07.65	446		57.1	A

Experiment No. VIC 048

Place of release: Oberon Bay
 Number of fish released 200
 Per cent recaptured: 4.5

Date of release: 19 April 1964
 Lengths: (36-53 cm)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1	Wilsons Promontory	*	20.04.64	1	45.7	P
2-4	Oberon Bay		21.04.64	2		P
5	Shallow Island		28.05.64	39	48.3	P?
6	" "		09.06.64	51	51.4	P?
7	Lakes Entrance		15.06.64	57		?
8	" "		10.07.64	82		P
9	SA, Port Lincoln		10.12.66	965	66.0	P

Experiment No. VIC 049

Place of release: Tidal River
 Number of fish released 100
 Per cent recaptured: 9.0

Date of release: 20 April 1964
 Lengths: [36 cm (2%); 38-51cm (97%);
 53 cm (1%)]
 Subspecies: Eastern (40%); Western (60%)

Recapture number	Locality		Date of recapture	Days free	Length (cm) at release	Returned by
1	Norman Bay		06.06.64	47	45.1	A
2	Squeaky Bay		07.06.64	48		A
3	Waratah Bay		27.06.64	68	43.2	A
4	" "		12.07.64	83	50.8	A
5	" "	*	15.08.64	117	47.0	A
6	NSW, Eden		16.12.64	240		P
7	" "	*	28.04.65	373		P
8	NSW, Nowra	*	26.05.65	401		P
9	WA, Betty Bay		01.06.67	1137		A

Experiment No. VIC 050

Place of release: Oberon Bay
 Number of fish released: 100
 Per cent recaptured: 12.0

Date of release 21 April 1964
 Lengths: [37-51 cm (99%) 53 cm (1%)]
 Subspecies: Eastern (33%); Western (67%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1	Lakes Entrance (64 km E)	29.05.64	38	43.0	P
2	Darby River	17.06.64	57	44.4	A
3	Waratah Bay	* 02.07.64	72	48.3	A?
4	" "	26.07.64	96	48.3	A
5	Sealers Cove	01.10.64	163	50.8	A?
6	NSW, Eden	* 31.12.64	254		P
7	NSW, Logans Beach	14.01.65	268		P
8	NSW, Eden	* 28.04.65	372		P
9	" "	01.05.65	375		P
10	Waratah Bay	06.10.65	533	59.7	A
11	WA, Bremer Bay	04.03.67	1097		P
12	WA, Hunts Canning Co	?.?.68	-		P

Experiment No. VIC 051

Place of release: Lakes Entrance
(32 km W)
Number of fish released: 200
Per cent recaptured: 28.5

Date of release: 25 May 1964
Lengths: [24 cm (1%); 27-39 cm (99%)]
Subspecies: Eastern (50%); Western (50%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	recaptured	Returned by
1-2	Lakes Entrance (64 km E)	29.05.64	4			P
3-4	" "	"	"	34.0		P
5-26	" "	31.05.64	6			P
	(51 km E)					
27-28	Pearl Point	26.06.64	32			P
29	NSW, Wonboyn	"	"			P
30	Tamboon Inlet	* 27.06.64	33			P
31	McLaughans Inlet	27.08.64	63	39.4		A
32	Port Albert	11.10.64	139	34.3		A
33	Lakes Entrance	25.10.64	153	32.7		A
34	Golden Beach	28.10.64	156	35.6		A
35	Gippsland Lakes	25.11.64	184			A
36	Pelican Island	* 30.11.64	189	41.9		P?
37	Lakes Entrance	24.12.64	213	40.6		A
38-40	" "	29.12.64	218			P
41-43	" "	17.01.65	237			P
44-45	" "	18.01.65	238			P
46-47	" " (18 km E)	08.02.65	259			P
48	" "	"	"			P
49-51	" "	26.02.65	277			P
52	Point Ricardo	27.02.65	278			P
53	Lakes Entrance	19.04.65	329			P
54	" "	* 15.05.65	355	38.0		P
55	NSW, Nowra	* 26.05.65	366			P
56	Lakes Entrance	04.12.65	558			P
57	WA, Parrys Inlet	09.03.69	1651			P

Experiment No. VIC 052

Place of release: Lakes Entrance
(64 km E)
Number of fish released: 50
Per cent recaptured: 22.0

Date of release: 31 May 1964
Lengths: (27-36 cm)
Subspecies: Eastern (93%); Western (7%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1	Tamboon Inlet	21.09.64	113	34.3	A
2	Marlo	28.12.64	211	35.6	A
3	Lakes Entrance	29.12.64	212		P
4	" "	" "	" "	31.7	P
5	" " (18 km E)	08.02.65	253		P
6	" "	" "	" "		P
7	" "	26.02.65	271		P
8	Point Ricardo	27.02.65	272		P
9	Lakes Entrance	19.04.65	323		P
10	" "	14.05.65	348		P
11	" "	* 15.05.65	349		P

Experiment No. VIC 053

Place of release: Lakes Entrance
(80 km E)
Number of fish released: 100
Per cent recaptured: 18.0

Date of release: 26 June 1964
Lengths: [30-37 cm (17%); 38-52 cm (83%)]
Subspecies: Eastern (100%)

Recapture number	Locality	Date of recapture	Days free	Length (cm) at release	Returned by
1-4	Cape Conran	10.07.64	14		P
5	NSW, Disaster Bay	21.07.64	25	63.5	P
6	NSW, Wonboyn	11.08.64	46	55.9	P
7	Tamboon Inlet	21.09.64	87	48.3	A
8	NSW, Wonboyn	22.09.64	88		P
9	Mallacoota	10.10.64	106	51.0	A
10	Seaspray	24.10.64	120	48.3	A
11	NSW, Wonboyn	27.12.64	184		P
12	NSW, Eden	01.01.65	189		P
13	" "	16.01.65	204		P
14	Lakes Entrance	21.03.65	268		P
15	NSW, Eden	* 28.04.65	306		P
16	New South Wales	* 28.03.66	640		P
17	" " "	* 20.06.66	724		A
18	NSW, Woollongong	31.12.67	1283	68.6	A

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1945, and Victorian Releases, 1939 to 1964. /

UNIVERSITY OF TORONTO
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